

## SOME RESULTS OF THE UNIVERSITY OF KANSAS ENTOMOLOGICAL EXPEDITIONS

To Galveston and Brownsville, Tex., in 1904 and 1905.

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THE writer conducted two entomological expeditions to Texas for the museum of the University of Kansas in the years 1904 and 1905. Each of these expeditions had Brownsville, the extreme southern point of the state, as its objective point, but on account of the wretched connections with the one lone steamer between Galveston and our destination, as well as the limited time at our disposal, we spent the three weeks of our first stay, in May, at Galveston, but succeeded in reaching our original destination by rail in 1905, by the new Gulf Coast line. We remained at Brownsville from June 6 to July 8, encamped within a mile of the post-office, beside the estuary, or old bed of the Rio Grande, which forms a part of the dividing line between the United States and Mexico. The entire collecting period of the two trips was seven and a half weeks.

My associates at Galveston were my regular museum assistant, Mr. E. S. Tucker, and a postgraduate student in entomology, Dr. Charles F. Adams, the well-known dipterologist. At Brownsville I was assisted by Mr. Tucker and an undergraduate student, Mr. E. G. Corwine. The success of the two expeditions was largely due to the efficient cooperation of these gentlemen.

This paper contains lists of the species collected in the orders of Lepidoptera, Coleoptera, and Hemiptera-heteroptera. Lists in the other orders of insects will be published at a later date.

### I.—LIST OF LEPIDOPTERA.

Grateful acknowledgments are hereby tendered to Dr. Henry Skinner, Prof. John B. Smith and Mr. W. D. Kearfott for important aid in the determination of species.

The numbers and nomenclature are those of Smith's check-list of 1903.

Abbreviations: B. for Brownsville; G. for Galveston.

#### Family NYMPHALIDÆ.

- 2 *Danais berenice* Cram. B.
- 8a *Colænis delila* Fabr. B.
- 10 *Euptoieta claudia* Cram. B.

- 122 *Phyciodes phaon* Edw. B. and G.  
 131           *picta* Edw. B.  
 137 *Synchloe lacinia* Geyer. B.  
 139 *Cystineura amymone* Men. B.  
 160 *Junonia cœnia* Hbn. B. and G.  
 164 *Eunica monima* Cram. B.  
 171 *Timetes chiron* Fabr. B.  
 183 *Apatura celtis* Bd. & Lec. B.  
 185           *leilia* Edw. B.  
 188           *flora* Edw. B.  
 204 *Neonympha sosybius* Fabr. B.

Family LIBYTHEIDÆ.

- 255a *Libythea bachmani* Kirtl. B.

Family ERYCINIDÆ.

- 263 *Calephelis cœnius* Linn. B. and G.  
 267 *Caria melicerta* Schaus. B.

Family LYCÆNIDÆ.

- 283 *Thecla melinus* Hbn. B.  
 361 *Lycæna couperii* Grt. B.  
 390           *hanno* Stoll. B. and G.  
 393           *exilis* Bdv. G.

Family PAPILIONIDÆ.

- 402 *Pieris monuste* Linn. B.  
 407           *protodice* Bd. & Lec. B. and G.  
 409           *rapæ* Linn. G.  
 411 *Nathalis iole* Bdv. G.  
 438 *Colias eurytheme* Bdv. G.  
 446a           *skinneri* Barnes. G.  
 458 *Terias lisa* Bdv. B.  
 458a           *alba* Streck. B.  
 459           *linda* Edw.? B.  
 479 *Papilio polyxenes* Fabr. B.  
 487           *thoas* Linn. B.

Family HESPERIDÆ.

- 495a *Copæodes procris* Edw. B. and G.  
 532a *Pamphila huron* Edw. G.  
 535           *phylæus* Dru. B. and G.  
 536           *brettus* Bd. & Lec. B.  
 538           *draco* Edw. G.  
 564           *errans* Skinner. G.  
 588           *osyka* Edw. B. and G.  
*Pyrgus occidentalis* Skinner. New species. B. and G.  
 649 *Pholisora catullus* Fabr. B. and G.  
 653           *hayhurstii* Edw. B.  
 657 *Achlyodes thraso* Westw. B.

## Family SPHINGIDÆ.

- 921 *Ællopos tantalus* Linn. B.  
 729 *Deilephila lineata* Fabr. G.  
 755 *Phlegethontius carolina* Linn. G.

## Family CERATOCAMPIDÆ.

- 829 *Adelocephala heiligbrodtii* Harv. B.

## Family SYNTOMIDÆ.

- 854 *Pseudomya minima* Grt. G.  
 866 *Ctenucha venosa* Wlk. B.

## Family LITHOSIIDÆ.

- 894 *Illice subjecta* Wlk. B.

## Family ARCTIIDÆ.

- 930 *Eubaphe aurantiaca* Hbn. B.  
 930<sub>a</sub> *rubicundaria* Hbn. G.  
 932 *Utetheisa bella* Linn. G.  
 950 *Estigmene acræa* Dru. G.  
 957 *Diacrisia virginica* Fabr. G.  
 994 *Apantesis vittata* Fabr. G.  
 996 *phalerata* Harris. B. and G.

## Family AGARISTIDÆ.

- 1066 *Copidryas gloveri* G. & R. G.

## Family NOCTUIDÆ.

- 1228 *Crambodes talidiformis* Gn. B.  
 1229 *Platysenta videns* Gn. B. and G.  
 1253 *Caradrina subaquila* Harv. B.  
 1278 *Oligia chalconia* Hbn. B.  
 1284 *nucicolora* Gn. B.  
 1449 *Prodenia ornithogalli* Gn. G.  
 1452 *Laphygma frugiperda* S. & A. G.  
 1640 *Peridroma incivis* Gn. B.  
 1728 *Feltia annexa* Tr. B. and G.  
 2164 *Leucania subpunctata* Harv. G.  
 2184 *juncicola* Gn. G.  
 2502 *Heliocheilus paradoxus* Grt. G.  
 2504 *Heliothis armiger* Hbn. G.  
 2513 *Rhododipsa volupia* Fitch. G.  
 2558 *Schinia lynx* Gn. G.  
 2688 *Plusiodonta compressipalpis* Gn. G.  
 2711 *Autographa pseudogamma* Grt. B.  
 2762 *Ogdoconta cinereola* Gn. B. and G.  
 2764 *Pæctes declinata* Grt. B.  
 2775 *Amyna orbica* Morr. B.  
 2777 *Aletia argillacea* Hbn. B.  
*Eucalyptia gigantea* Sm. New species. G.  
 2843 *Erastria carneola* Gn. B.  
 2862 *Xanthoptera nigrofimbria* Gn. B.

- 2877 *Tripudia opipara* Hy. Edw. B.  
     *Minofala instans* Sm. New species. G.  
 2884 *Metoponia obtusa* H.-S. B. and G.  
 2910 *Acontia nuicula* Sm. B.  
 2913      *aprica* Hbn. B. and G.  
 2922      *cretata* G. and R. B.  
 2933      *libedis* Sm. B.  
 2935      *candefacta* Hbn. B. and G.  
 2937 *Fruva fasciatella* Grt. B.  
 2957 *Metathorasa argentilinea* Wlk. B.  
 2971 *Parora texana* Grt. var.? B.  
 2973 *Homopyralis contracta* Wlk. B.  
 2999 *Cænurgia convalesceus* Gn. G.  
 3005 *Panula inconstans* Gn. B.  
 3008 *Melipotis nigrescens* G. & R. B. and G.  
 3014      *versabilis* Harv. B.  
 3015      *jucunda* Hbn. B.  
 3020 *Cirrhobolina mexicana* Behr. B.  
 3150 *Panapoda rufimargo* Hbn. B.  
 3153a *Remigia marcida* Gn. G.  
 3168 *Phurys vinculum* Gn. B.  
 3171      *lima* Gn. G.  
 3186 *Eubolina impartialis* Harv. B.  
 3187 *Campometra amella* Gn. B.  
 3188      *bilineata* Sm. B.  
 3190 *Heteranassa mima* Harv. B.  
 3205 *Yrias repentis* Grt. B.  
 3217b *Homoptera edusa* Dru. B.  
     *strigimacula* Du. B.  
 3274 *Tetanolita mynesalis* Wlk. B.  
 3294 *Salia interpuncta* Grt. B.  
     *Rhescipha snowi* Skinner. New species. B.

Family NOTODONTIDÆ.

- 3364 *Datana floridana* Graef. G.  
 3404 *Heterocampa bilineata* Pack. G.  
 3424 *Harpyia cinerea* Wlk. B.  
     *Gonodonta pyrigo* Cramer. B.

Family LASIOCAMPIDÆ.

- 3462 *Artace punctistriga* Wlk. B.

Family GEOMETRIDÆ.

- 3743 *Hæmatopsis grataria* Fabr. G.  
 3838 *Chlorochlamys chloroleucaria* Gn. B.  
 3857 *Synchlora denticulata* Wlk. B.  
 3878 *Fernaldella fimetaria* G. & R. B. and G.  
 3879      *stalachtaria* Streck. B.  
 4102 *Tornos scolopacinarius* Gn. B.

Family PYROMORPHIDÆ.

- Harrisina mexicana* Schaus. B.

## Family PRYALIDÆ.

- 4638 *Hymenia perspectalis* Hbn. G.  
 4660 *Conchylodes platinalis* Gn. B. and G.  
 4687 *Diaphania hyalinata* Linn. B.  
 4688           *quadristigmalis* Grt. G.  
 4817 *Pyrausta phœnicealis* Hbn. B.  
 4826           *laticlavata* G. & R. G.  
 4846 *Eustixia octonalis* Zell. B. and G.  
 4849 *Noctuelia thalialis* Wlk. B.  
 4919 *Schœnobius forficellus* Thunb. B.  
 4994 *Argyria argentana* Martyn. G.

## SUMMARY OF FAMILIES AND SPECIES OF LEPIDOPTERA.

|                    |    |                   |    |
|--------------------|----|-------------------|----|
| Nymphalidæ .....   | 14 | Lithosiidæ.....   | 1  |
| Libytheidæ.....    | 1  | Arctiidæ .....    | 7  |
| Erycinidæ.....     | 2  | Agaristidæ.....   | 1  |
| Lycœnidæ.....      | 4  | Noctuidæ.....     | 56 |
| Papilionidæ.....   | 11 | Notodontidæ ..... | 4  |
| Hesperidæ .....    | 12 | Lasiocampidæ..... | 1  |
| Sphingidæ.....     | 3  | Geometridæ.....   | 6  |
| Ceratocampidæ..... | 1  | Pyromorphidæ..... | 1  |
| Syntomidæ.....     | 2  | Pyalidæ .....     | 10 |

Totals : Families, 18; species, 137.

## II.—LIST OF COLEOPTERA.

The author gratefully acknowledges his indebtedness to Mr. Charles Liebeck, Mr. H. C. Fall and Mr. C. Schaeffer for the determination of species not readily identified from the University of Kansas collection.

The numbers are those of Henshaw's lists.

Abbreviations: B. for Brownsville; G. for Galveston.

## Family CICINDELIDÆ.

- 12 *Tetracha carolina* Linn. B.  
 38 *Cicindela rectilatera* Chd. B. and G.  
 39           *tenuisignata* Lec. B.  
 41           *tortuosa* Dej. B. and G.  
 42*b*           *saulcyi* Guer. G.  
 43           *hamata* Brulle. B. and G.  
           *inquisitor* Casey. B.  
 59           *togata* Laf. G.  
 60           *pamphila* Lec. B. and G.  
 61           *severa* Laf. G.

## Family CARABIDÆ.

- 70 *Omophron labiatum* Fab. G.  
 127 *Calosoma scrutator* Fab. B.  
 129           *frigidum* Kirby. G.

- 130 *Calosoma sayi* Dej. G.  
 220 *Scarites subterraneus* Fab. G.  
     *Dyschirius duplicatus*? Fall. G.  
 273 *Clivina ferrea* Lec. B.  
 275      *bipustulata* Fab. B.  
 295 *Panagæus crucigerus* Say. G.  
 311 *Bembidium coxendix* Say. B.  
 367      *nubiculosum* Chd. B.  
 391      *versicolor* Lec. B.  
 394      *constrictum* Lec. G.  
 421      *lævigatum* Say. B.  
 448 *Tachys occultator* Casey. G.  
 479 *Pogonus texanus* Chd. G.  
 481      *lecontei* Horn. B.  
 563 *Pterostichus texanus* Lec. B. and G.  
 564      *sayi* Brulle. G.  
     *Loxandrus*, undet. species. G.  
 710 *Diplochila laticollis* Lec. G.  
 773 *Platynus decorus* Say. G.  
 789      *collaris* Say. G.  
 805      *nutans* Say. G.  
 847 *Casnonia pennsylvanica* Linn. B.  
 853 *Galerita bicolor* Dru. G.  
 855 *Zuphium americanum* Dej. B.  
 860 *Thalpius hornii* Chd. B.  
 882 *Lebia viridis* Say. B.  
 889      *ornata* Say. B.  
 892      *analisis* Dej. B.  
 897      *furcata* Lec. B.  
 913 *Blechrus pusio* Lec. B.  
     *Euproctus texanus* Wickham. B.  
 917 *Tecnophilus croceicollis* Men. G.  
 922 *Callida decora* Fab. B.  
     *Micragra brunnea* Putzeys. B.  
 960 *Helluomorpha texana* Lec. B.  
 961      *ferruginea* Lec. B.  
 980 *Brachynus puberulus* Chd. G.  
     *medius*. B.  
 999 *Chlænius orbis* Horn. B.  
 1012      *vafer* Lec. G.  
 1022      *texanus* Horn. B.  
 1023      *perplexus* Dej. G.  
 1059 *Agonoderus lineola* Fab. G.  
 1060      *infuscatus* Dej. G.  
 1061      *pallipes* Fab. G.  
 1064      *indistinctus* Dej. G.  
 1066      *micros* Lec. G.  
 1083 *Harpalus caliginosus* Fab. G.  
 1087      *pennsylvanicus* De G. G.  
 1124 *Selenophorus palliatus* Fab. B. and G.

- 1126 *Selenophorus fatuus* Lec. B.  
 1136 *Stenolophus spretus* Dej. G.  
 1146           *dissimilis* Dej. B.  
 1176 *Anisodactylus piceus* Men. G.  
 1180           *rusticus* Say. G.  
           *gravidus* Lec. G.

## Family HALIPLIDÆ.

- 1226 *Haliphus ruficollis* De G. B.  
       *Haliphus*, new species. B.

## Family DYTISCIDÆ.

- 1240 *Hydrocanthus iricolor* Say. B.  
 1249 *Laccophilus americanus* Aube. B.  
 1250           *terminalis* Sharp. B.  
 1252           *4-lineatus* Horn. B.  
 1294 *Cœlambus medialis* Lec. G.  
 1401 *Copelatus chevrolatii* Aube. B. and G.  
 1480 *Hydaticus bimarginatus* Say. G.  
 1495 *Thermonectes ornaticollis* Aube. B.  
 1496           *basilaris* Harr. B. and G.  
 1496b          *latecinctus* Lec. G.  
 1502 *Cybister fimbriolatus* Say. B. and G.

## Family GYRINIDÆ.

- 1531 *Gyrinus parvus* Say. B.  
 1538 *Dineutes emarginatus* Say. B.

## Family HYDROPHILIDÆ.

- 1561 *Hydrochus variolatus* Lec. B.  
 1587 *Hydrophilus insularis* Lap. B. and G.  
 1588 *Tropisternus limbalis* Lec. B.  
 1589           *dorsalis* Br. G.  
 1595           *striolatus* Lec. G.  
 1597 *Hydrocharis obtusatus* Say. G.  
 1610 *Berosus immaculatus* Zimm. B.  
 1613           *infuscatus* Lec. B.  
 1614           *striatus* Say. G.  
 1626 *Philhydrus nebulosus* Say. B.  
 1657 *Creniphilus subcupreus* Say. B.  
 1675 *Cercyon prætextatum* Say. G.

## Family STAPHYLINIDÆ.

- 2182 *Philonthus alumnus* Er. B.  
       var. *rufulus* Fauvel. B.  
 2251 *Actobius pæderoides* Lec. B.  
 2462 *Stenus arculus* Er. B. and G.  
 2492 *Cryptobium texanum* Lec. G.  
 2533 *Lathrobium seriatum* Lec. G.  
 2543           *dimidiatum* Say. B.  
 2585 *Pinophilus latipes* Grav. G.  
 2707 *Bledius fortis* Lec. G.

- 2709 *Bledius brevidens* Lec. G.  
 2717           *semiferrugineus* Lec. G.  
 2722           *rubiginosus* Er. B.  
 Apocellus, undet. species near *sphæricollis* Say. B.  
 Staphylinid, undet. genus and species. B.

Family PHALACRIDÆ.

- 9877 *Olibroporus punctatus* Casey?. B.  
 9879 *Acylopus calcaratus* Casey. B.  
 9881           *ergoti* Casey?. B.  
 3005 *Olibrus apicalis* Melsh. B.  
 Phalacrid, undet. genus and species. B.

Family CORYLOPHIDÆ.

- 3031 *Orthoperus suturalis* Lec. B.

Family COCCINELLIDÆ.

- 3034 *Anisosticta seriata* Melsh. G.  
 3036 *Megilla fuscilabris* Muls. B.  
 3046 *Hippodamia convergens* Guer. B.  
 3064 *Cycloneda sanguinea* Linn. B.  
 3065 *Olla oculata* Fab. B.  
 3065*a*   *abdominalis* Say. B.  
*Brachyacantha decora* Casey. B.  
 3142 *Scymnus cinctus* Lec. B.  
 3148           *collaris* Melsh. G.

Family EROTYLIDÆ.

- 3200 *Languria mozardi* Lat. B.  
 3204           *angustata* Beauv. G.  
 3205           *convexicollis* Horn. B.  
*Dasydactylus enici* Schaeffer. B.

Family CUCUJIDÆ.

- 3306 *Silvanus rectus* Lec. B.  
 3311 *Scalidia linearis* Lec. B.  
*Loberus ornatus* Schaeffer. B.  
 3339 *Læmophilæus ferrugineus* Steph. G.

Family MYCETOPHAGIDÆ.

- 3409 *Typhœa fumata* Linn. B.

Family DERMESTIDÆ.

- Cryptorhopalum festivum* Casey. B.  
                   *obesulum* Casey. B.  
 3449           *hæmorrhoidale* Lec. B.

Family TROGOSITIDÆ.

- 3838 *Tenebrioides corticalis* Melsh. B.  
 3848 *Peltis pippingskoeldi* Mann. B.

Family PARNIDÆ.

- Throscinus schwarzi* Schaeffer. B.



## Family HETEROCERIDÆ.

- 3964 *Heterocerus mollinus* Kies. G.  
 3965           *collaris* Wies.? B.  
 3968           *pallidus* Say. B. and G.  
 3969           *pusillus* Say. B.  
 10016          *schwarzi* Horn. G.

## Family DASYLLIDÆ.

- 4006 *Scirtes orbiculatus* Fab. B.

## Family ELATERIDÆ.

- 4092 *Alaus lusciosus* Hope. G.  
 4135 *Esthesopus præditus* Horn. B.  
 4140 *Aptopus peregrinus* Horn. B.  
 4182 *Monocrepidius aversus* Lec. B.  
 4185           *vespertinus* Fab. B.  
           undet. species. G.  
 4197 *Ischiodontus* var. *oblitus* Cand. B.  
 4250 *Drasterius grandicollis* Horn. B.  
 4277 *Ludius hepaticus* Germ. B.  
       *Glyphonyx*, undet. species. B.  
 4512 *Pyrophorus physoderus* Germ. B.

## Family BUPRESTIDÆ.

- 4657a *Chrysobothris analis* Lec. B.  
 10069           *edwardsii* Horn. B.  
 4699 *Acmæodera pulchella* Hbst. B.  
 4699           *pulchella*, var. B.  
 4730 *Agrilus lecontei* Saund. B.  
 4755 *Taphrocera gracilis* Say. B.  
 4756           *agrilloides* Cr. B.

## Family LAMPYRIDÆ.

- 4821 *Pyropyga minuta* Lec. B.  
 4825 *Pyractomena ecostata* Lec. G.  
 4847 *Photuris pennsylvanica* De G. B.  
 4872 *Chauliognathus scutellaris* Lec. B.  
 4876           *marginatus* Fab. B.  
 4973 *Lobetus abdominalis* Lec. B.

## Family MALACHIDÆ.

- 5007 *Collops balteatus* Lec. B. and G.  
 5013           *vittatus* Say. B.  
           undet. species. G.

## Family CLERIDÆ.

- 5127 *Elasmocerus terminatus* Say. B.  
           *californicus* Fall. B.  
 5138 *Cymatodera fascifera* Lec. B.  
 5165 *Clerus quadrisignatus* Say. B.  
 5173           *abruptus* Lec. B.

- 5195 *Hydnocera pubescens* Lec. B.  
*Pelonium*, new species. B.  
*maculicolle* Schaeffer. B.  
 5225 *Orthopleura* var. *punctatissimus* Chevr. B.

## Family PTINIDÆ.

- 5243 *Ptinus bimaculatus* Melsh. B.  
*Catorama ventrale* Lec. B.  
*grande* Fall. B.  
*Sinoxylon*, undet. species, probably new. B.  
 5355 *Amphicerus punctipennis* Lec. B. and G.  
 5369 *Polycaon obliquus* Lec. B.

## Family SCARABÆIDÆ.

- 5439 *Canthon perplexus* Lec. B.  
 5442 *Chœridium lecontei* Harold. B.  
 5452 *Phanæus carnifex* Linn. G.  
 5486 *Atænius imbricatus* Melsh. G.  
 5490 *oblongus* Horn. B.  
 5491 *gracilis* Melsh. B.  
 10185 *inops* Horn. B.  
 10190 *cognatus* Lec. B. and G.  
 5533 *Aphodius lividus* Oliv. B. and G.  
 5560 *concavus* Say. B.  
 undet. species. B.  
 5581 *Ochodæus biarmatus* Lec. B.  
 5584 *sparsus* Lec. B.  
*Bradycinetus minor* Linell. B.  
 5589 *serratus* Lec. B.  
 5591 *Bolboceras lazarus* Fab. G.  
 5616 *Trox suberosus* Fab. B. and G.  
 5719 *Diplotaxis truncatula* Lec. B.  
 undet. species near *punctata* Lec. B.  
 5737 *Lachnosterna cribrosa* Lec. B.  
 5742 *torta* Lec. B.  
 5772 *crassissima* Blanch. G.  
 5793 *submucida* Lec. B.  
 5797 *crinita* Burm. B. and G.  
 10240 *dubia* Smith. B.  
 5800 *Phytalus robustus* Horn. B.  
*cavifrons* Linell. B.  
 5813 *Listrochelus obtusus* Lec. B.  
 5830 *Anomala flavipennis* Burm. B. and G.  
 5831 *binotata* Gyll. B.  
*binotata*, form *luteipennis* Lec. B.  
*polychalca* Bates. B.  
*Strigoderma*, undet. species. G.  
 5878 *Cyclocephala immaculata* Oliv. G.  
 5767 *Chalepus obsoletus* Lec. G.  
 5868 *trachypygus* Burm. B. and G.

- 5869 *Ligyris gibbosus* De G. G.  
 5870           *ruginasus* Lec. B.  
 5872           *rugiceps* Lec. G.  
 5881 *Strategus antæus* Fab. G.  
 5883           *julianus* Burm. B. and G.

## Family SPONDYLIDÆ.

- 5947 *Parandra polita* Say. B. and G.

## Family CERAMBYCIDÆ.

- 5955 *Malodon serrulatus* Lec. G.  
 5990 *Hylotrupes bajulus* Linn. G.  
 6024 *Achryson surinamum* Linn. B.  
 6045 *Eburia ovicollis* Lec. B.  
 6046           *tumida* Lec. B.  
 6047           *mutica* Lec. B.  
 6048           *manca* Lec. B.  
           *Psyrassa texana* Schaeffer. B.  
 6059 *Elaphidion inerme* Newm. B.  
 6064           *pumilum* Newm. G.  
 6067 *Aneflus tenuis* Lec. B.  
 6073 *Elaphidion mæstum* Lec. B.  
           *Ibidion townsendii* Linell. B.  
 6090 *Phyton pallidum* Say. B.  
           *Obrium mazinnæ* Linell. B.  
 6106 *Ancylocera bicolor* Oliv. B.  
 6119 *Dendrobias quadrimaculatus* Dup. G.  
 6163 *Stenosphenus novatus* Horn. B.  
 6169 *Cyllene crinicornis* Chev. B.  
 6180 *Xylotrechus sagittatus* Germ. G.  
 6389 *Monohammus marmorator* Kirby. G.  
 6425 *Liopus wiltii* Horn. B.  
 6426           *crassulus* Lec. B.  
 6433 *Dectes spinosus* Say. B.  
 6456 *Ecyrus dasycerus* Say. B.  
 6468 *Oncideres texana* Horn. B.  
 6471 *Ataxia crypta* Say. B. and G.  
 6473 *Dorcasta cinerea* Horn. B.  
 6490 *Mecas inornata* Say. G.  
 6492           *pergrata* Say. G.  
           *Aporataxia lineata* Hamilton. B.

## Family CHRYSOMELIDÆ.

- 6579 *Anomœa laticlavata* Forst. G.  
 6580           *mutabilis* Lac. B.  
 6582 *Euryscopa lecontei* Cr. B.  
 6588 *Coscinoptera canella* Lec. B.  
 6596a *Babia pulla* Lec. B.  
 6601b *Chlamys polycocca* Lac. B.  
 6620 *Cryptocephalus cribripennis* Lec. B.  
 6622           *leucomelas* Suffr. B.

- 6641 *Cryptocephalus fulguratus* Lec. B.  
new species. B.
- 6649 *Griburius scutellaris* Fab. B. and G.
- 6651 *montezumæ* Suffr. B.
- 6660 *Pachybrachys abdominalis* Say. B. and G.  
undet. species. B.
- Metachroma*, undet. species. B.
- 6707 *Diachus auratus* Fab. B.
- 6732 *Glyptoscelis crypticus* Say. B.  
*prosopis* Schaeffer. B.
- 6738 *Myochrous denticollis* Say. B.  
*magnus* Schaeffer. B.
- 10369 *Colaspoides opacicollis* Horn. B.
- 6747 *Typophorus canellus* Fab. B.
- 6769 *Graphops marcassita* Cr. G.
- 6774 *Colaspis brunnea* Fab. B.
- 6791 *Doryphora dahlbomi* Stal. B.
- 6800 *disrupta* Rog. B.
- 6810a *bigsbyana* Kirby. B.
- 6839 *Lina scripta* Fab. B.
- 6880 *Diabrotica connexa* Lec. B.
- 6881a *tenella* Lec. G.
- 6883 *balteata* Lec. B.
- 6885 *vittata* Fab. B.
- 6888 *longicornis* Say. B. and G.  
*peregrina* Jacoby. B.  
undet. species. B.
- 6911 *Galeruca integra* Lec. G.
- 6913 *maritima* Lec. G.
- 6928 *Ædionychis gibbitarsis* Say. B.
- 6929 *lustrans* Cr. B.
- 6930 *8-maculata* Cr. B.
- Andrector ruficornis* Oliv. B.
- 6931 *Ædionychis interjectionis* Cr. B. and G.
- 6938 *petaurista* Fab. B. and G.
- 6949 *Disonycha 5-vittata* Say. B.
- 6951 *glabrata* Fab. B.
- 6954 *abbreviata* Melsh. B.
- 6959 *rufa* Ill. B.
- 10416 *crenicollis* Say. B.
- 10418 *varicornis* Horn. B.
- 6960 *Haltica bimarginata* Say. B.
- 6963 *ignita* Ill. B.
- 6971 *foliacea* Lec. G.  
undet. species. B.
- 10438 *Longitarsus vanus* Horn. G.  
*Epitrix*, undet. species. B.
- 6980 *Crepidodera helxines* Linn. B.  
two undet. species. B.
- Plectroteta flexicaulis* Schaeffer. B.

- 7000 *Systema elongata* Fab. B.  
 7087 *Charistena bicolor* Smith? or new species. B.  
 7104 *Coptocycla guttata* Oliv. B.  
 7107           *clavata* Fab. B.  
 7109 *Chelymorpha* var. *17-punctata* Say. G.

## Family BRUCHIDÆ.

- 7126 *Bruchus ramicornis* Boh. G.  
 7128           *bivulneratus* Horn. B.  
 7129           *cruentatus* Horn. G.  
 7131           *discolor* Horn. G.  
 7142           *uniformis* Lec. B.  
 7145           *perforatus* Horn. G.  
 7149           *amicus* Horn. B. and G.  
               *texanus* Schaeffer. B.

## Family TENEBRIONIDÆ.

- Eurymetopon?*, undet. species. B.  
 7190 *Emmenastus texanus* Lec. B.  
 7201 *Epitragus acutus* Lec. B.  
 7391 *Nyctobates pennsylvanica* De G. B.  
       *Eleodes*, undet. species near *extricata* Say. B.  
 7416 *Tenebrio obscurus* Fab. G.  
 7426 *Opatrinus aciculatus* Lec. G.  
       *Blapstinus*, undet. species. G.  
 7434           *fortis* Lec. G.  
 10603           *arenarius* Casey. B.  
       *Paratenetus*, undet. species. G.  
 7567 *Helops perforatus* Horn. B.  
       *Strongylium varians* Champ. B.

## Family CISTELIDÆ.

- 7589 *Allecula punctulata* Melsh. B.  
       *Hymenorus*, undet. species. B.  
 10638 *Lystronichus piliferus* Champ. B.  
       *Lobopoda punctulata*. B.

## Family LAGRIIDÆ.

- Statira simulans* Schaeffer. B.

## Family MELANDRYIDÆ.

- Polypria crux-rufa* Chev. B.

## Family CEDEMERIDÆ.

- 7733 *Nacerdes melanura* Linn. G.  
 7735 *Xanthochroa trinotata* Lec. G.  
 7739 *Oxacis cana* Lec. B.  
 7748           *dorsalis* Melsh. G.

## Family MORDELLIDÆ.

- Anaspis*, undet. species. B.  
 7782 *Mordella octopunctata* Fab. G.  
 7783           *marginata* Melsh. B.

- 7793 *Glipodes sericans* Melsh. B.  
 7816 *Mordellistena comata* Lec. G.  
 7839                    *pustulata* Melsh. B.  
                           new species. G.

Family ANTHICIDÆ.

- Stereopalpus impressicollis*? B.  
 7938 *Anthicus tenuis* Lec. B.  
 7946                    *vicinis* Laf. B.  
 7960                    *punctulatus* Lec. B.

Family MELOIDÆ.

- 8045 *Gnathium texanum* Horn. B.  
 8050 *Zonitis longicornis* Horn. B.  
 8079 *Epicauta trichrus* Pall. G.  
 8094                    *lemniscata* Fab. B.  
 8111 *Pyrota dubitabilis* Horn. B.

Family OTIORHYNCHIDÆ.

- 8312 *Tanymecus confertus* Gyll. B.  
                           *Pandeletejus*, undet. species. B.  
 8316 *Compsus auricephalus* Say. B and G.  
                           *Cyphus*, undet. species. B.  
                           *Pseudocyphus flexicaulis* Schaeffer. B.  
 8338 *Coleocerus marmoratus* Horn. B.  
 8340 *Eudiagogus pulcher* Fah. B. and G.

Family CURCULIONIDÆ.

- 8347 *Sitones flavescens* Marsh. B.  
                           *Apion*, undet. species. B.  
 8549 *Smicronyx corpulentus* Lec. B.  
                           *Pachyphanes*, undet. species. B.  
 8570 *Endalus setosus* Lec. B.  
 10975 *Anthonomus leucostictus* Dietz. B.  
 10985                    *grandis* Boh. B.  
                           *Tychius*, three undet. species. B.  
                           *Otidocephalus*, undet. species. B.  
 8711 *Læmosaccus plagiatus* Fab. B.  
 8716 *Conotrachelus seniculus* Lec. B.  
 8725                    *similis* Boh. B.  
 8741 *Rhyssematus palmacollis* Say. B.  
 8745                    *pruinosis* Boh. B.  
                           *Chalcodermus serripes* Fab. B.  
 8812 *Copturus nanulus* Lec. G.  
 8814                    *adpersus* Lec. B.  
                           *Cœliodes tarsalis* —. G.  
 8829                    *tenuipes* Lec. B.  
 8879 *Baris ærea* Boh. B.  
                           undet. species. B.  
                           *Nicentrus*, undet. species. G.  
 11142 *Madarellus cuneatus* Casey. B.

- 11191 *Limnobaris ebena?* Casey. B.  
 8952 *Barilepton lineare* Lec. B.  
 Barinids, two undet. genera and species. B.  
*Barinus albescens*. B.

## Family BRENTHIDÆ.

- 8966 *Cylas formicarius* Fab. B.

## Family CALANDRIDÆ.

- 8978 *Rhodobænus tredecimpunctatus* Ill. G.  
 8984 *Sphenophorus ochreus* Lec. G.  
 8998                   *placidus* Say. G.  
 9011 *Calandra oryzæ* Linn. B.  
 9032 *Allomimus dubius* Horn. B.

## Family ANTHRIBIDÆ.

- 9218 *Anthribus cornutus* Say. B.  
 9227 *Brachytarsus vestitus* Lec. B. and G.  
       undet. species. G.

## SUMMARY OF FAMILIES AND SPECIES OF COLEOPTERA.

|                    |    |                    |    |
|--------------------|----|--------------------|----|
| Cicindelidæ.....   | 10 | Malachidæ.....     | 3  |
| Carabidæ.....      | 59 | Cleridæ.....       | 9  |
| Haliplidæ.....     | 2  | Ptinidæ.....       | 6  |
| Dytiscidæ.....     | 11 | Scarabæidæ.....    | 41 |
| Gyrinidæ.....      | 2  | Spondylidæ.....    | 1  |
| Hydrophilidæ.....  | 12 | Cerambycidæ.....   | 31 |
| Staphylinidæ.....  | 14 | Chrysomelidæ.....  | 64 |
| Phalacridæ.....    | 5  | Bruchidæ.....      | 8  |
| Corylophidæ.....   | 1  | Tenebrionidæ.....  | 13 |
| Coccinellidæ.....  | 9  | Cistelidæ.....     | 4  |
| Erotylidæ.....     | 4  | Lagriidæ.....      | 1  |
| Cucujidæ.....      | 4  | Melandryidæ.....   | 1  |
| Mycetophagidæ..... | 1  | Edemeridæ.....     | 4  |
| Dermeestidæ.....   | 3  | Mordellidæ.....    | 7  |
| Trogositidæ.....   | 2  | Anthicidæ.....     | 4  |
| Parnidæ.....       | 1  | Meloidæ.....       | 5  |
| Heteroceridæ.....  | 5  | Otiorhynchidæ..... | 7  |
| Dasyllidæ.....     | 1  | Curculionidæ.....  | 30 |
| Elateridæ.....     | 11 | Brenthidæ.....     | 1  |
| Buprestidæ.....    | 7  | Calandridæ.....    | 5  |
| Lampyridæ.....     | 6  | Anthribidæ.....    | 3  |

Totals: Families, 42; species, 418.

III.—LIST OF HEMIPTERA-HETEROPTERA.

For invaluable aid in the determination of species the author is indebted to Messrs. E. P. Van Duzee and Otto Heidemann.

The numbers are those of Uhler's check-list.

Abbreviations: B. for Brownsville; G. for Galveston.

Family SCUTELLERIDÆ.

26 *Homæmus proteus* Stal. B.

26                   *proteus*, var. B.

Family CORIMELÆNIDÆ.

59 *Corimelæna pulicaria* Germ. B. and G.

61                   *unicolor* Pal. Beauv. G.

Family CYDNIDÆ.

79 *Homaloporus pangæiformis* Sign., probably. B.

103 *Pangæus bilineatus* Say. B.

Family PENTATOMIDÆ.

174 *Podisus acutissimus* Stal. B.

190 *Brochymena quadripustulata* Fab. B.

192                   *obscura* H. Schf. B.

226 *Cebalus pugnax* Fab. B. and G.

237 *Mormidea sordidula* Stal. B.

247 *Euschistus servus* Say. G.

253                   *bifibulus* Pal. Beauv. B.

256                   *comptus* Walk. B. and G.

271 *Proxys punctulatus* Pal. Beauv. G.

300 *Thyanta custator* Fab. B.

324 *Runibia proxima* Dallas. B.

334 *Nezara viridula* Linn. G.

347 *Banasa imbuta* Walk. B.

Family COREIDÆ.

425 *Chariesterus albiventris* Burm. B.

*cuspidatus* Dist. B.

447 *Mozena lunata* Burm. B.

479 *Acanthocephala declivis* Say. B.

482                   *granulosus* Dallas. B.

491 *Leptoglossus phyllopus* Linn. B. and G.

503 *Pthia picta* Drury. B.

518 *Catorhintha texana* Stal. B.

522 *Anasa tristis* De G. G.

524                   *andresii* Guer. B.

560 *Hyalymenus tarsatus* Fab. B.

571 *Stachyocnemus apicalis* Dallas. B.

*Cydamus borealis* Dist. B.

573 *Darmistus subvittatus* Stal. B.

585 *Harmostes serratus* Fab. B.

586                   near *nebulosus* Stal. B.

587                   *virescens* Dallas. B.



- 595 *Corizus hyalinus* Fab. B.  
 601       *lateralis* Say. B.  
 602       *punctipennis* Dallas. B.  
 604       *nigristernum* Sign. B.  
           new species.  
 608 *Jadera hæmatoloma* H. Schf. G.

## Family LYGÆIDÆ.

- 618 *Nysius californicus* Stal. B.  
       *providus* Uhl. B.  
 628 *Cymus angustatus* Stal. G.  
       *Ischnodemus*, near *fulvipes* De G. G.  
 639 *Geocoris pallens* Stal. B. and G.  
 661 *Ligyrocoris constrictus* Say. G.  
       *Perigenes*, undet. species. B.  
 668 *Pamera longula* Dallas. B. and G.  
 671       *bilobata* Say. B.  
       undet. species. B.  
 674       *basalis* Dallas. B.  
 684 *Ptochiomera oblonga* Stal. B.  
 733 *Lygæus lineola* Dallas. B. and G.  
 743       *bicolor* H. Schf. B.  
 759 *Oncopeltus* Dallas. B. and G.

## Family LARGIDÆ.

- 766 *Largus succinctus* Linn. B. and G.  
 774 *Dysdercus mimus* Say. B.  
 777       *concinus* Stal. B.

## Family CAPSIDÆ.

- 790 *Trigonotylus pulcher* Reut. B. and G.  
       *Creontiades signatus* Dist.? B.  
       *Pallacocoris*, near *jurgionus* Stal. B.  
 819 *Resthenia insignis* Say. B.  
 840 *Oncerometopus nigriclavus* Reut. B.  
       *Hadrodema pulverulentum* Uhl. B.  
 892 *Lygus distanti* Atkinson. B.  
 847 *Phytocoris eximius* Reut. B.  
 854 *Neurocolpus nubilus* Say. B.  
 860 *Calocoris rapidus* Say. B.  
       *Megacelum pusillum* Uhl. B.  
       *catullum* Uhl. B.  
 881 *Lygus pratensis* Linn. G.  
 884       *carolinæ* Reut. B. and G.  
 888       *sallei* Stal. B.  
 902 *Pœciloscytus basalis* Reut. B.  
       *Pœcilocapsus*, new species. B.  
 944 *Pycnoderes insignis* Reut. G.  
 994 *Episcopus ornatus* Reut. B.  
 998 *Atomoscelis seriatus* Reut. B.  
 999 *Agalliaestes suavis* Reut. G.

Family ANTHOCORIDÆ.

1035 *Triphleps insidiosus* Say. G.

Family TINGITIDÆ.

1050 *Piesma cinerea* Say. B.

1056 *Corythuca decens* Stal. G.

Family PHYMATIDÆ.

1118 *Phymata erosa* Linn. G.

Family NABIDÆ.

1135 *Phorticus collaris* Stal. B.

1144 *Coriscus ferus* Linn. G.

undet. species near *ferus* L. B.

Family REDUVIIDÆ.

1152 *Sinea diadema* Fab. G.

1153       *coronata* Stal. B.

1168 *Rocconata annulicornis* Stal. B.

1172 *Atrachelus cinereus* Fab. B. and G.

1178 *Repipta taurus* Fab. B.

1209 *Pindus socius* Uhl. B.

*Apiomerus spissipes* Say. B. and G.

1231 *Rasahus biguttatus* Say. B.

1237 *Melanolestes abdominalis* H. Schf. B.

1247 *Conorhinus rubro-fasciatus* De G. B.

1267 *Pnirontis infirma* Stal. B.

1269 *Pygolampis pectoralis* Say. G.

1273 *Oncocephalus geniculatus* Stal.

Family EMESIDÆ.

1285 *Emesa*, near *fratera* Say. B.

Family GERRIDÆ.

1305 *Limnotrecthus marginatus* Say. B. and G.

Family VELIIDÆ.

*Mesovelvia mulsanti* B. White. B.

Family SALDIDÆ.

1327 *Salda signoretii* Guer. G.

1331       *sphacelata* Uhl. B. and G.

1344       *pallipes* Fab. G.

*vagator* Uhl., MS. G.

Family BELOSTOMATIDÆ.

1380 *Belostoma americanum* Leidy. G.

1385 *Benacus griseus* Say. B. and G.

Family NEPIDÆ.

1396 *Ranatra quadridentata* Stal. B.

Family NOTONECTIDÆ.

1408 *Buena platycnemis* Fieb. B. and G.

## Family CORIXIDÆ.

Corixa, five undet. species. B. and G.

## SUMMARY OF FAMILIES AND SPECIES.

|                   |    |                    |    |
|-------------------|----|--------------------|----|
| Scutelleridæ..... | 2  | Nabidæ.....        | 3  |
| Corimelænidæ..... | 2  | Reduviidæ.....     | 13 |
| Cydnidæ.....      | 2  | Emesidæ.....       | 1  |
| Pentatomidæ.....  | 13 | Gerridæ.....       | 1  |
| Coreidæ.....      | 23 | Veliidæ.....       | 1  |
| Lygæidæ.....      | 15 | Saldidæ.....       | 4  |
| Largidæ.....      | 3  | Belostomatidæ..... | 2  |
| Capsidæ.....      | 21 | Nepidæ.....        | 1  |
| Anthocoridæ.....  | 1  | Notonectidæ.....   | 1  |
| Tingitidæ.....    | 2  | Corixidæ.....      | 5  |
| Phymatidæ.....    | 1  |                    |    |

Totals: Families, 21; species, 117.